

INFORMATION DISCLOSURE  
CITATION

ATTY. DOCKET NO.

SERIAL NO.

723-749

09/585,329

APPLICANT

HOLLIS

(Use several sheets if necessary)

FILING DATE

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June 2, 2000

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|----------|-----------------|-------|----------|-------------------------------|
|                      | 4,918,625       | 04/17/90 | Yan             | 345   | 692      |                               |
|                      | 5,416,606       | 05/16/95 | Katayama et al. | 382   | 582-239  |                               |
|                      | 5,495,563       | 02/27/96 | Winser          | 345   | 582      |                               |
|                      | 5,606,650       | 02/25/97 | Kelley et al.   | 345   | 552      |                               |
|                      | 5,767,858       | 06/16/98 | Kawase et al.   | 345   | 552      |                               |
|                      | 5,805,175       | 09/1998  | Priem           | 345   | 601      |                               |
|                      | 5,880,737       | 03/09/99 | Griffen et al.  | 345   | 582      |                               |
|                      | 5,886,705       | 03/23/99 | Lentz           | 345   | 582      |                               |
|                      | 5,894,300       | 04/13/99 | Takizawa        | 345   | 601      |                               |
|                      | 5,986,663       | 11/16/99 | Wilde           | 345   | 428      |                               |
|                      | 6,005,583       | 12/21/99 | Morrison        | 345   | 587      |                               |
|                      | 6,005,584       | 12/21/99 | Kitamura et al. | 345   | 582      |                               |
|                      | 6,016,150       | 01/18/00 | Lengyel et al.  | 345   | 426      |                               |
|                      | 6,054,993       | 04/25/00 | Devic et al.    | 345   | 426      |                               |
|                      |                 |          |                 |       |          |                               |
|                      |                 |          |                 |       |          |                               |
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## FOREIGN PATENT DOCUMENTS

| DOCUMENT | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES NO |
|----------|------|---------|-------|----------|-----------------------|
|          |      |         |       |          |                       |
|          |      |         |       |          |                       |
|          |      |         |       |          |                       |

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

|  |   |
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|  | ZDNet Reviews, from PC Magazine, "Other Enhancements," January 15, 1999,<br>wysiwyg://16/http://www4.zdnet.com...ies/reviews/0,4161,2188286,00.html   |
|  | ZDNet Reviews, from PC Magazine, "Screen Shot of Alpha-channel Transparency," January 15, 1999,<br>wysiwyg://16/http://www4.zdnet.com...ies/reviews/0,4161,2188286,00.html                    |
|  | Alpha (transparency) Effects, Future Technology Research Index,<br>http://www.futuretech.vuurwerk.nl/alpha.html   |
|  | Blythe, David, 5.6 Transparency Mapping and Trimming with Alpha,<br>http://toolbox.sgi.com/TasteOfDT/d...penGL/advanced98/notes/node41.html, June 11, 1998                                    |
|  | 10.2 Alpha Blending, http://www.sgi.com/software/opengl/advanced98/notes/node146.html   |
|  | 10.3 Sorting, http://www.sgi.com/software/opengl/advanced98/notes/node147.html  |
|  | 10.4 Using the Alpha Function, http://www.sgi.com/software/opengl/advanced98/notes/node148.html   |
|  | Winner, Stephanie, et al., "Hardware Accelerated Rendering Of Antialiasing Using A Modified A-buffer<br>Algorithm," Computer Graphics Proceedings, Annual Conference Series, 1997, pp 307-316 |

\*Examiner Matthew Good-Johnson Date Considered 7/21/2003

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| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE   | NAME                | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|--------|---------------------|-------|----------|-------------------------------|
| <i>TH</i>            | 4.275.413       | Jun-81 | Sakamoto et al.     |       |          |                               |
|                      | 4.357.624       | Nov-82 | GREENBERG           |       |          |                               |
|                      | 4.463.380       | Jul-84 | HOOKS, Jr.          |       |          |                               |
|                      | 4.491.836       | Jan-85 | Collmever et al.    |       |          |                               |
|                      | 4.586.038       | Apr-86 | Sims et al.         |       |          |                               |
|                      | 4.600.919       | Jul-86 | Stern               |       |          |                               |
|                      | 4.615.013       | Sep-86 | YAN et al.          |       |          |                               |
|                      | 4.625.289       | Nov-86 | Rockwood            |       |          |                               |
|                      | 4.653.012       | Mar-87 | Duffv et al.        |       |          |                               |
|                      | 4.692.880       | Sep-87 | MERZ et al.         |       |          |                               |
|                      | 4.695.943       | Sep-87 | Keelev et al.       |       |          |                               |
|                      | 4.710.876       | Dec-87 | Cline et al.        |       |          |                               |
|                      | 4.768.148       | Aug-88 | Keelev et al.       |       |          |                               |
|                      | 4.785.395       | Nov-88 | Keelev              |       |          |                               |
|                      | 4.790.025       | Dec-88 | Inoue et al.        |       |          |                               |
|                      | 4.808.988       | Feb-89 | BURKE et al.        |       |          |                               |
|                      | 4.812.988       | Mar-89 | Duthuit et al.      |       |          |                               |
|                      | 4.817.175       | Mar-89 | TENENBAUM et al.    |       |          |                               |
|                      | 4.829.452       | May-89 | Kang et al.         |       |          |                               |
|                      | 4.833.601       | May-89 | Barlow et al.       |       |          |                               |
|                      | 4.855.934       | Aug-89 | Robinson            |       |          |                               |
|                      | 4.888.712       | Dec-89 | BARKANS et al.      |       |          |                               |
|                      | 4.897.806       | Jan-90 | COOK et al.         |       |          |                               |
|                      | 4.907.174       | Mar-90 | PRIEM               |       |          |                               |
|                      | 4.935.879       | Jun-90 | UEDA                |       |          |                               |
|                      | 4.965.751       | Oct-90 | Thaver et al.       |       |          |                               |
|                      | 4.974.176       | Nov-90 | BUCHNER et al.      |       |          |                               |
|                      | 4.974.177       | Nov-90 | NISHIGUCHI          |       |          |                               |
|                      | 4.975.977       | Dec-90 | Kurosu et al.       |       |          |                               |
|                      | 4.989.138       | Jan-91 | Radochonski         |       |          |                               |
|                      | 5.003.496       | Mar-91 | HUNT, Jr. et al.    |       |          |                               |
|                      | 5.016.183       | May-91 | Shvong              |       |          |                               |
|                      | 5.018.076       | May-91 | JOHARY et al.       |       |          |                               |
|                      | 5.043.922       | Aug-91 | Matsumoto           |       |          |                               |
|                      | 5.056.044       | Oct-91 | Frederickson et al. |       |          |                               |
|                      | 5.062.057       | Oct-91 | BLACKEN et al.      |       |          |                               |
|                      | 5.086.495       | Feb-92 | Grav et al.         |       |          |                               |
|                      | 5.091.967       | Feb-92 | Ohsawa              |       |          |                               |
|                      | 5.097.427       | Mar-92 | Lathrop et al.      |       |          |                               |

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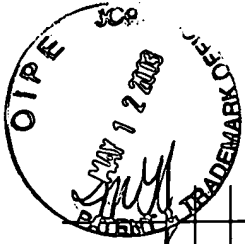
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|           |        |                    |  |
|-----------|--------|--------------------|--|
| 5.144.291 | Sep-92 | Nishizawa          |  |
| 5.163.126 | Nov-92 | Einkauf et al.     |  |
| 5.179.638 | Jan-93 | Dawson et al.      |  |
| 5.204.944 | Apr-93 | WOLBERG et al.     |  |
| 5.224.208 | Jun-93 | MILLER, JR. et al. |  |
| 5.239.624 | Aug-93 | COOK et al.        |  |
| 5.241.658 | Aug-93 | MASTERSON et al.   |  |
| 5.255.353 | Oct-93 | Itoh               |  |
| 5.268.995 | Dec-93 | Diefendorff et al. |  |
| 5.268.996 | Dec-93 | STEINER et al.     |  |
| 5.278.948 | Jan-94 | Luken, Jr.         |  |
| 5.307.450 | Apr-94 | Grosssman          |  |
| 5.315.692 | May-94 | HANSEN et al.      |  |
| 5.345.541 | Sep-94 | Kellev et al.      |  |
| 5.353.424 | Oct-94 | Partovi et al.     |  |
| 5.357.579 | Oct-94 | BUCHNER et al.     |  |
| 5.361.386 | Nov-94 | Watkins et al.     |  |
| 5.363.475 | Nov-94 | BAKER et al.       |  |
| 5.377.313 | Dec-94 | Scheibl            |  |
| 5.394.516 | Feb-95 | WINSER             |  |
| 5.402.532 | Mar-95 | Epstein et al.     |  |
| 5.404.445 | Apr-95 | Matsumoto          |  |
| 5.408.650 | Apr-95 | ARSENAULT          |  |
| 5.412.796 | May-95 | OLIVE              |  |
| 5.415.549 | May-95 | LOGG               |  |
| 5.422.997 | Jun-95 | NAGASHIMA          |  |
| 5.432.895 | Jul-95 | MYERS              |  |
| 5.432.900 | Jul-95 | Rhodes et al.      |  |
| 5.438.663 | Aug-95 | Matsumoto et al.   |  |
| 5.448.689 | Sep-95 | Matsuo et al.      |  |
| 5.461.712 | Oct-95 | CHELSTOWSKI et al. |  |
| 5.467.438 | Nov-95 | Nishio et al.      |  |
| 5.467.459 | Nov-95 | Alexander et al.   |  |
| 5.469.535 | Nov-95 | JARVIS et al.      |  |
| 5.473.736 | Dec-95 | Young              |  |
| 5.475.803 | Dec-95 | Stearns et al.     |  |
| 5.487.146 | Jan-96 | Guttan et al.      |  |
| 5.490.240 | Feb-96 | FORAN et al.       |  |
| 5.495.563 | Feb-96 | WINSER             |  |
| 5.495.563 | Feb-96 | Winsor, Paul A.    |  |
| 5.504.499 | Apr-96 | Horie et al.       |  |
| 5.506.604 | Mar-96 | NALLY et al.       |  |

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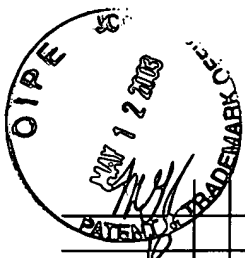
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|-----------|--------|-----------------------------|--|
| 5.535.374 | Jul-96 | OLIVE                       |  |
| 5.543.824 | Aug-96 | PRIEM et al.                |  |
| 5.544.292 | Aug-96 | WINSER                      |  |
| 5.548.709 | Aug-96 | HANNAH et al.               |  |
| 5.553.228 | Sep-96 | ERB et al.                  |  |
| 5.557.712 | Sep-96 | Guav                        |  |
| 5.559.954 | Sep-96 | SAKODA et al.               |  |
| 5.561.746 | Oct-96 | MURATA et al.               |  |
| 5.561.752 | Oct-96 | Jevans                      |  |
| 5.563.989 | Oct-96 | BILLYARD                    |  |
| 5.566.285 | Oct-96 | Okada                       |  |
| 5.573.402 | Nov-96 | GRAY                        |  |
| 5.579.456 | Nov-96 | Cosman, Michael A.          |  |
| 5.582.451 | Dec-98 | COX et al.                  |  |
| 5.586.234 | Dec-96 | SAKURABA et al.             |  |
| 5.593.350 | Jan-97 | BOUTON et al.               |  |
| 5.600.763 | Feb-97 | GREENE et al.               |  |
| 5.607.157 | Mar-97 | NAGASHIMA                   |  |
| 5.608.864 | Mar-97 | BINDLISH et al.             |  |
| 5.616.031 | Apr-97 | LOGG                        |  |
| 5.621.867 | Apr-97 | MURATA et al.               |  |
| 5.628.686 | May-97 | SVANCAREK et al.            |  |
| 5.638.535 | Jun-97 | Rosenthal et al.            |  |
| 5.644.364 | Jul-97 | KURTZE et al.               |  |
| 5.649.082 | Jul-97 | Burns                       |  |
| 5.650.955 | Jul-97 | PUAR et al.                 |  |
| 5.651.104 | Jul-97 | COSMAN                      |  |
| 5.657.045 | Aug-97 | Katsura et al.              |  |
| 5.657.443 | Aug-97 | Krech, Jr.                  |  |
| 5.657.478 | Aug-97 | RECKER et al.               |  |
| 5.659.671 | Aug-97 | TANNENBAUM et al.           |  |
| 5.659.673 | Aug-97 | Nonoshita                   |  |
| 5.659.715 | Aug-97 | WU et al.                   |  |
| 5.664.162 | Sep-97 | DYE                         |  |
| 5.666.439 | Sep-97 | Ishida et al.               |  |
| 5.678.037 | Oct-97 | Osugi et al.                |  |
| 5.682.522 | Oct-97 | HUANG et al.                |  |
| 5.684.941 | Nov-97 | Dye                         |  |
| 5.687.304 | Nov-97 | Kiss, Kenneth W.            |  |
| 5.691.746 | Nov-97 | SHYU                        |  |
| 5.694.143 | Dec-97 | Fielder et al.              |  |
| 5.696.892 | Dec-97 | REDMANN et al. (w/Abstract) |  |

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| 5.703.806 | Dec-97 | PUAR et al.          |  |
| 5.706.481 | Jan-98 | HANNAH et al.        |  |
| 5.706.482 | Jan-98 | MATSUSHIMA et al.    |  |
| 5.714.981 | Feb-98 | SCOTT-JACKSON et al. |  |
| 5.724.561 | Mar-98 | TAROLLI et al.       |  |
| 5.726.689 | Mar-98 | NEGISHI et al.       |  |
| 5.726.947 | Mar-98 | Yamazaki et al.      |  |
| 5.734.386 | Mar-98 | COSMAN               |  |
| 5.739.819 | Apr-98 | Bar-Nahum            |  |
| 5.740.343 | Apr-98 | Tarolli et al.       |  |
| 5.740.383 | Apr-98 | NALLY et al.         |  |
| 5.740.406 | Apr-98 | Rosenthal et al.     |  |
| 5.742.749 | Apr-98 | Foran et al.         |  |
| 5.742.788 | Apr-98 | PRIEM et al.         |  |
| 5.745.118 | Apr-98 | ALCORN et al.        |  |
| 5.745.125 | Apr-98 | Deering et al.       |  |
| 5.748.199 | May-98 | Palm                 |  |
| 5.748.986 | May-98 | Butterfield et al.   |  |
| 5.751.291 | May-98 | Olsen et al.         |  |
| 5.751.292 | May-98 | EMMOT                |  |
| 5.751.295 | May-98 | Becklund et al.      |  |
| 5.751.930 | May-98 | Katsura et al.       |  |
| 5.754.191 | May-98 | Mills et al.         |  |
| 5.757.382 | May-98 | Lee                  |  |
| 5.760.783 | Jun-98 | MIGDAL et al.        |  |
| 5.764.228 | Jun-98 | BALDWIN              |  |
| 5.764.237 | Jun-98 | KANEKO               |  |
| 5.767.856 | Jun-98 | PETERSON et al.      |  |
| 5.768.629 | Jun-98 | Wise et al.          |  |
| 5.777.623 | Jul-98 | SMALL                |  |
| 5.781.927 | Jul-98 | WU et al.            |  |
| 5.791.994 | Aug-98 | HIRANO et al.        |  |
| 5.801.711 | Sep-98 | KOSS et al.          |  |
| 5.801.720 | Sep-98 | Norrod et al.        |  |
| 5.808.619 | Sep-98 | CHOI et al.          |  |
| 5.808.630 | Sep-98 | PANNELL              |  |
| 5.809.219 | Sep-98 | PEARCE et al.        |  |
| 5.809.278 | Sep-98 | WATANABE et al.      |  |
| 5.815.165 | Sep-98 | BLIXT                |  |
| 5.818.456 | Oct-98 | COSMAN et al.        |  |
| 5.819.017 | Oct-98 | Akelev et al.        |  |
| 5.821.940 | Oct-98 | Morgan et al.        |  |

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|-----------|--------|--------------------------|--|
| 5.821.940 | Oct-98 | Morgan et al             |  |
| 5.822.516 | Oct-98 | Krech, Jr.               |  |
| 5.828.382 | Oct-98 | WILDE                    |  |
| 5.828.383 | Oct-98 | MAY et al.               |  |
| 5.828.907 | Oct-98 | Wise et al.              |  |
| 5.831.624 | Nov-98 | TAROLLI et al.           |  |
| 5.831.625 | Nov-98 | RICH et al. (w/Abstract) |  |
| 5.831.640 | Nov-98 | WANG et al.              |  |
| 5.835.096 | Nov-98 | BALDWIN                  |  |
| 5.835.792 | Nov-98 | Wise et al.              |  |
| 5.838.334 | Nov-98 | Dve                      |  |
| 5.844.576 | Dec-98 | WILDE et al.             |  |
| 5.850.229 | Dec-98 | Edelsbrunner et al.      |  |
| 5.856.829 | Jan-99 | GRAY, III et al.         |  |
| 5.859.645 | Jan-99 | LATHAM                   |  |
| 5.861.888 | Jan-99 | DEMPSEY                  |  |
| 5.861.893 | Jan-99 | Struogess, Jay J.        |  |
| 5.867.166 | 02-199 | Mvhrvold et al.          |  |
| 5.870.097 | Feb-99 | Snyder et al.            |  |
| 5.870.098 | Feb-99 | Gardiner                 |  |
| 5.870.102 | Feb-99 | TAROLLI et al.           |  |
| 5.870.109 | Feb-99 | MCCORMACK et al.         |  |
| 5.870.587 | Feb-99 | DANFORTH et al.          |  |
| 5.872.902 | Feb-99 | Kuchkuda et al.          |  |
| 5.877.741 | Mar-99 | CHEE et al.              |  |
| 5.877.770 | Mar-99 | HANAOKA                  |  |
| 5.877.771 | Mar-99 | DREBIN et al.            |  |
| 5.880.736 | Mar-99 | PEERCY et al.            |  |
| 5.883.638 | Mar-99 | Rouet et al.             |  |
| 5.886.701 | Mar-99 | Chauvin et al.           |  |
| 5.887.155 | Mar-99 | Laidio                   |  |
| 5.890.190 | Mar-99 | Rutman                   |  |
| 5.892.517 | Apr-99 | RICH (w/Abstract)        |  |
| 5.892.974 | Apr-99 | KOIZUMI et al.           |  |
| 5.900.881 | May-99 | IKEDO                    |  |
| 5.903.283 | May-99 | SELWAN et al.            |  |
| 5.909.218 | Jun-99 | Naka et al.              |  |
| 5.909.225 | Jun-99 | SCHINNERER et al.        |  |
| 5.912.675 | Jun-99 | Laperriere               |  |
| 5.912.676 | Jun-99 | MALLADI et al.           |  |
| 5.914.721 | Jun-99 | Lim                      |  |
| 5.914.729 | Jun-99 | LIPPINCOTT               |  |

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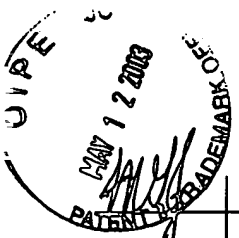
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|--|-----------|--------|------------------|--|
|  | 5.920.876 | Jul-99 | UNGAR et al.     |  |
|  | 5.923.332 | Jul-99 | IZAWA            |  |
|  | 5.923.334 | Jul-99 | LUKEN            |  |
|  | 5.926.182 | Jul-99 | MENON et al.     |  |
|  | 5.926.647 | Jul-99 | ADAMS et al.     |  |
|  | 5.933.150 | Aug-99 | Nao et al.       |  |
|  | 5.933.154 | Aug-99 | HOWARD et al.    |  |
|  | 5.933.155 | Aug-99 | AKLEY            |  |
|  | 5.933.529 | Aug-99 | Kim              |  |
|  | 5.936.641 | Aug-99 | Jain et al.      |  |
|  | 5.936.683 | Aug-99 | LIN              |  |
|  | 5.940.089 | Aug-99 | Dilliplane       |  |
|  | 5.940.538 | Aug-99 | Spiegel et al.   |  |
|  | 5.943.058 | Aug-99 | Nao              |  |
|  | 5.943.060 | Aug-99 | COSMAN et al.    |  |
|  | 5.945.997 | Aug-99 | ZHAO et al.      |  |
|  | 5.949.421 | Sep-99 | Onletree et al.  |  |
|  | 5.949.423 | Sep-99 | Olsen            |  |
|  | 5.949.428 | Sep-99 | Toelle et al.    |  |
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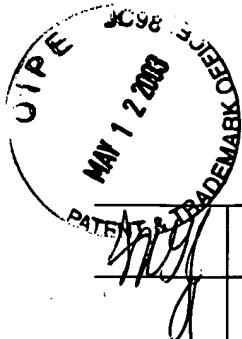
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